

Engine

Isuzu AH-6UZ1XYSS six cylinder, diesel engine turbocharged with air cooled intercooler, electronic fuel injection, 362 Net HP (270 kW) without fan pump, 329 Net HP (245 kW) with fan pump, 4-cycle, water cooled, double element air filter with restriction indicator, EPA Tier III compliant.

SAE net horsepower .. 362 HP (270 kW) @ 1,950 rpm
Maximum torque ... 1,058 ft-lbs. (1 435 N-m) @ 1,435 rpm
Starter 24V
Alternator 50 amp
Air cleaner Double element
Governor Electronic
Battery 128 amp hours

Hydraulic System

Two variable displacement axial piston pumps and one gear pump for pilot controls, one 4 spool valve and one 5-spool valve with auxiliary spool.

Hydraulic Pumps

Two variable volume piston pumps provide power for attachment, swing and travel.

Maximum flow 2 x 95.1 gpm (2 x 360 l/min)
Pilot pump max. flow 7.9 gpm (30 l/min)

Relief Valve Settings

Boom/arm/bucket 4,550 psi (31.4 MPa²)
Swing circuit 4,260 psi (29.4 MPa²)
Travel circuit 4,970 psi (34.3 MPa²)

Hydraulic Cylinders

Young 2-piece..... number of cylinders – bore x rod x stroke

Boom 2 - 7.5" x 5" x 59"
(191 mm x 127 mm x 1 499 mm)
Arm 1 - 7.5" x 5" x 78"
(191 mm x 127 mm x 1 981 mm)

Young 3-piece..... number of cylinders – bore x rod x stroke

Boom 2 - 7.5" x 5" x 59"
(191 mm x 127 mm x 1 499 mm)
Arm 1 - 8.5" x 5" x 71"
(216 mm x 127 mm x 1 803 mm)
Jib 1 - 6.5" x 4" x 53.5"
(165 mm x 102 mm x 1 359 mm)

Control Valve One 4-spool valve for right track travel, boom, bucket, and arm acceleration, and one 5-spool valve for left track travel, swing, boom acceleration, auxiliary spool and arm.

Oil Filtration

Nephron® filter 1 micron
Return and pilot filters 10 micron
Suction screen 105 micron



Cab and Controls

Cab mounted on 6 fluid filled mountings. Features include safety glass windows, sliding front window with auto-lock. Windshield washer and wiper, heater, air-conditioner, AM/FM radio with auto tuner, floor mat, skylight window and right and rear side mirrors. KAB 515 operators seat with manual weight adjustment, seat height and tilt adjustment, adjustable headrest, backrest angle adjustment, adjustable pivoting arm rests and seat belt. Control pattern selector valve. Reliable soft-touch switches.

Heater output 20,240 BTU/hr (5 100 kcal/hr)
A/C output 18,250 BTU/hr (4 600 kcal/hr)

Swing

Fixed displacement axial piston motor. Internal ring gear with grease cavity for swing pinion. Swing bearing is single-row shear type ball bearing. Swing cushion valve and dual stage relief valves for smooth swing deceleration and stops. Mechanical disc swing brake.

Swing speed 0 – 9.0 rpm
Tail swing 11' 11" (3.62 m)
Swing torque 110,710 lbf-ft. (150.0 kN•m)

Undercarriage

12' 2" (3.72 m) gauge by 17' 9" (5.42 m) tractor type (LC) long undercarriage, 2' 5" (0.73 m) ground clearance, sealed rollers and idlers, H.D. travel motor covers, H.D. center guard, idler mount reinforcement, and double track guides.

Carrier rollers 3 per side
Track rollers 9 per side
Track link pitch 9" (228 mm)
Shoes 50 per side
Shoe width 29.5" (750mm)

Travel System

Variable displacement axial piston motor, two-speed independent hydrostatic travel with compact drive, disc type parking brakes. All hydraulic components mounted within the width of side frame.

Max. travel speed 1.9/3.3 mph (3.1/5.3 km/h)
Gradeability 70%
Traction Force 76,660 lbs. (34 772 kg)

Lubricant and Coolant Capacity

Hydraulic tank 62.61 gal. (237 liters)
Hydraulic system 90.35 gal. (342 liters)
Final drive (per side) 3.96 gal. (15 liters)
Engine 9.51 gal. (36 liters)
Fuel tank 161.41 gal. (611 liters)
Cooling system 10.04 gal. (38 liters)

Attachment Options

Young 2-piece 55' (16.76 m)
Young 3-piece 54' (16.46 m)

Operating Weight

Working weight with 29.5" (750 mm) shoes, 55' 2-piece attachment, 6' cab riser 119,696 lbs. (54 293 kg)

Working weight with 29.5" (750 mm) shoes, 54' 3-piece attachment, 6' cab riser 121,303 lbs. (55 022 kg)

600 LX Tier 3 Material Handler

Lifting Capacities

600 LX Material Handler w/two piece 55' (16.76 m) Young Attachment

Grapple Pin Height		Radius of Load																			
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67 m)		40' 0" (12.19 m)		45' 0" (13.72 m)		50' 0" (15.24 m)		55' 0" (16.76 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
55' 0" (16.76 m)	lbs. kg							22,100*	22,100*												
50' 0" (15.24 m)	lbs. kg									21,300*	21,300*	16,700*	16,700*								
45' 0" (13.72 m)	lbs. kg									22,800*	22,800*	20,400*	20,400*	15,700*	15,700*						
40' 0" (12.19 m)	lbs. kg									23,600*	23,600*	22,200*	22,200*	19,400*	19,400*	13,100*	13,100*				
35' 0" (10.67 m)	lbs. kg									24,300*	24,300*	23,200*	23,200*	21,300*	19,600*	17,500*	15,800*				
30' 0" (9.14 m)	lbs. kg									25,200*	25,200*	23,500*	23,500*	21,400*	19,500*	17,900*	15,800*	13,600*	12,900*		
25' 0" (7.62 m)	lbs. kg									26,700*	26,700*	24,000*	23,900*	21,600*	19,200*	17,700*	15,700*	14,700*	12,900*		
20' 0" (6.10 m)	lbs. kg							27,900*	27,900*	27,800*	27,800*	24,600*	23,200*	21,100*	18,700*	17,400*	15,400*	14,600*	12,800*		
15' 0" (4.57 m)	lbs. kg					30,700*	30,700*	34,100*	34,100*	29,000*	28,500*	25,300*	22,400*	20,600*	18,200*	17,100*	15,000*	14,300*	12,600*		
10' 0" (3.05 m)	lbs. kg					45,000*	45,000*	36,000*	35,600*	30,100*	27,100*	24,400*	21,500*	20,000*	17,600*	16,600*	14,600*	14,100*	12,300*	12,000*	10,500
5' 0" (1.52 m)	lbs. kg					47,000*	46,500*	37,100*	33,500*	29,500*	25,800*	23,500*	20,600*	19,300*	16,900*	16,200*	13,800*	12,100*	11,900*	10,400	
0' 0" (0 m)	lbs. kg					36,200*	36,200*	36,700*	31,700*	28,300*	24,600*	22,700*	19,800*	18,800*	16,400*	15,900*	13,800*	13,600*	11,800*		
-5' 0" (-1.52 m)	lbs. kg			11,900*	11,900*	27,600*	27,600*	35,300*	30,400*	27,300*	23,700*	22,100*	19,200*	18,300*	16,000*	15,600*	13,500*	13,400*	11,700*		
-10' 0" (-3.05 m)	lbs. kg			14,700*	14,700*	27,100*	27,100*	32,300*	29,600*	26,700*	23,100*	21,600*	18,700*	18,000*	15,600*	15,300*	13,300*	11,200*	11,200*		
-15' 0" (-4.57 m)	lbs. kg			17,900*	17,900*	29,200*	29,200*	27,800*	27,800*	23,400*	22,700*	19,500*	18,500*	15,900*	15,500*	12,300*	12,300*				
-20' 0" (-6.10 m)	lbs. kg			25,300*	25,300*	22,000*	22,000*	18,600*	18,600*	15,300*	15,300*	11,900*	11,900*								

600 LX Material Handler w/three piece 54' (16.46 m) Young Attachment

Grapple Pin Height		Radius of Load																			
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67 m)		40' 0" (12.19 m)		45' 0" (13.72 m)		50' 0" (15.24 m)		55' 0" (16.76 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
55' 0" (16.76 m)	lbs. kg							22,500*	22,500*												
50' 0" (15.24 m)	lbs. kg							23,200*	23,200*	20,700*	20,700*										
45' 0" (13.72 m)	lbs. kg							22,400*	22,400*	22,200*	22,200*	19,500*	19,500*								
40' 0" (12.19 m)	lbs. kg					24,000*	24,000*	24,100*	24,100*	23,800*	23,800*	21,300*	21,300*	18,200*	18,200*						
35' 0" (10.67 m)	lbs. kg					30,400*	30,400*	27,200*	27,200*	24,800*	24,800*	22,300*	22,300*	20,300*	18,700*	16,400*	14,800*				
30' 0" (9.14 m)	lbs. kg					37,300*	37,300*	31,200*	31,200*	26,400*	26,400*	23,000*	22,700*	20,600*	18,300*	17,000*	15,000*				
25' 0" (7.62 m)	lbs. kg					38,000*	38,000*	32,600*	32,600*	28,300*	26,300*	24,000*	21,500*	20,100*	17,700*	16,700*	14,700*	13,800*	12,000*		
20' 0" (6.10 m)	lbs. kg			49,100*	49,100*	40,000*	40,000*	33,400*	33,400*	28,300*	25,500*	23,000*	20,000*	19,300*	16,800*	16,200*	14,200*	13,800*	12,000*		
15' 0" (4.57 m)	lbs. kg	32,700*	32,700*	50,900*	50,900*	41,000*	41,000*	34,100*	32,600*	27,800*	24,100*	22,400*	19,400*	18,800*	16,400*	15,500*	14,400*	13,600*	11,800*		
10' 0" (3.05 m)	lbs. kg	53,400*	53,400*	53,900*	53,900*	42,500*	42,500*	34,700*	31,800*	27,600*	23,900*	22,500*	19,600*	19,700*	17,300*	16,100*	14,100*	13,400*	11,600*		
5' 0" (1.52 m)	lbs. kg	23,100*	23,100*	57,900*	57,900*	44,100*	44,100*	35,100*	31,200*	28,200*	24,500*	23,700*	20,800*	19,100*	16,700*	15,800*	13,700*	13,200*	11,400*		
0' 0" (0 m)	lbs. kg	19,500*	19,500*	35,000*	35,000*	45,600*	45,600*	36,100*	33,300*	28,900*	25,200*	22,800*	19,900*	18,500*	16,100*	15,400*	13,300*	13,000*	11,200*		
-5' 0" (-1.52 m)	lbs. kg	17,600*	17,600*	26,900*	26,900*	46,400*	44,100*	36,200*	31,300*	27,700*	24,000*	22,000*	19,100*	18,000*	15,600*	15,100*	13,000*	12,700*	11,100*		
-10' 0" (-3.05 m)	lbs. kg	16,700*	16,700*	21,800*	21,800*	40,100*	40,100*	34,800*	30,200*	26,800*	23,200*	21,400*	18,500*	17,600*	15,200*	14,900*	12,800*	9,300*	9,300*		
-15' 0" (-4.57 m)	lbs. kg	16,800*	16,800*	20,000*	20,000*	32,200*	32,200*	31,500*	29,400*	25,200*	22,500*	20,600*	18,200*	16,200*	15,000*	11,500*	11,500*				
-20' 0" (-6.10 m)	lbs. kg	16,100*	16,100*	20,000*	20,000*	30,500*	30,500*	26,200*	26,200*	20,700*	20,700*	16,400*	16,400*	11,800*	11,800*						
-25' 0" (-7.62 m)	lbs. kg							18,600*	18,600*	14,500*	14,500*										

Notes: Excavator lifting capacities

- Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
- Lifting capacities are in compliance with ASME B30.25 SCRAP AND MATERIAL HANDLERS
- Lifting capacities are based on machine standing on firm, uniform supporting surface. User must make allowances for job conditions such as soft or uneven ground, sudden stopping of loads, or other unfavorable job conditions.
- Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- These capacities apply to machines having 4550 psi boom hoist cylinder pressure.
- Least stable position is over the side.
- Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by the manufacturers before operating the machine.
- Capacities apply only to the machine as originally manufactured & normally equipped by LBX Company LLC.

